



Municipality of Anchorage

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Mayor Dan Sullivan

Anchorage Water & Wastewater Utility

Board Chair Tim Sullivan

December 10, 2013

Director, Office of Water
U.S. Environmental Protection Agency, Region 10
NPDES Compliance Unit
1200 Sixth Avenue, OW-133
Seattle, Washington 98101

**Subject: Whole Effluent Toxicity Testing Results
4th Quarter 2013
NPDES Permit No. AK-002255-1**

The John M. Asplund Water Pollution Control Facility permit requires that quarterly whole effluent toxicity (WET) testing reports be submitted with the discharge monitoring report (DMR) for the month following the test month. The enclosed report outlines test results for the short-term chronic toxicity test conducted for the Fourth quarter of 2013 (24-hour composite sample collected November 5th, 2013). Effluent flow on the sampling day for this WET test sample was 28.79 MGD.

The permit requires that testing continue with the most sensitive species after an annual screening using three species. This quarter's test used the most sensitive species as demonstrated by the screening of all three species in second quarter 2013. The WET testing consisted of a fertilization test using the purple sea urchin (*Strongylocentrotus purpuratus*). The permit toxicity trigger of 143TUc was not exceeded in this test with a reported chronic toxicity of 35.7 TUc.

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

I can be contacted at (907) 564-2786 or <mailto:David.Persinger@awwu.biz> should you have any questions.

Sincerely,

David Persinger
Acting Director, Treatment Division - AWWU

Cc: Alaska Department of Environmental Conservation, Division of Water
Rob Gustafson, Water Quality Supervisor, AWWU
Jeff Axman, Acting Superintendent, John M. Asplund WPCF, AWWU

Enclosure: Pacific EcoRisk, WET test report

Community, Security, Prosperity

PERMITTEE NAME (ADDRESS)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-0004

NAME: ANCHORAGE, MUNICIPALITY OF
ADDRESS: 3000 ARCTIC BLVD
ANCHORAGE, AK 99503-3998

AK0022551
PERMIT NUMBER

001 A
DISCHARGE NUMBER

DMR MAILING ZIP CODE 99503

MAJOR

(SUBR02)

External Outfall

*** NO DISCHARGE ***

NOTE: Read instructions before completing this form

FACILITY: JOHN M. ASPLUND WWTF---301 (H)

LOCATION ANCHORAGE AK 99502

ATTN: J. Brett Jorde, P.E., GENERAL MGR AWWU

FROM

YEAR MO DAY
12 11 01

TO

YEAR MO DAY
12 11 30

MONITORING PERIOD

PARAMETER		QUANTITY OR LOADING		UNITS	QUALITY OR CONCENTRATION		UNITS	HO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM		MINIMUM	AVERAGE	MAXIMUM			
CHLORINE, TOTAL RESIDUAL	SAMPLE MEASUREMENT	*****	*****	***	*****	*****	0.8	0	EVERY 3 HRS	GRAB
50060 1 0 0	PERMIT	*****	*****	***	*****	*****	1.2		EVERY 4 HRS	GRAB
EFFLUENT GROSS VALUE	REQUIREMENT	*****	*****	***	*****	*****	DAILY MX			
BOD, 5-DAY PERCENT REMOVAL	SAMPLE MEASUREMENT	*****	*****	***	46	*****	*****	N/A	Monthly	CALCTD
81010 K 0 0	PERMIT	*****	*****	***	REPORT MO AVG	*****	*****		Monthly	CALCTD
PERCENT REMOVAL	REQUIREMENT	*****	*****	***	77	*****	*****	N/A	Monthly	CALCTD
SOLIDS, SUSPENDED REMOVAL	SAMPLE MEASUREMENT	*****	*****	***	REPORT MO AVG	*****	*****		Monthly	CALCTD
81011 K 0 0	PERMIT	*****	*****	***		*****	*****			
PERCENT REMOVAL	REQUIREMENT	*****	*****	***		*****	*****			
	SAMPLE MEASUREMENT									
	PERMIT									
	REQUIREMENT									
	SAMPLE MEASUREMENT									
	PERMIT									
	REQUIREMENT									
	SAMPLE MEASUREMENT									
	PERMIT									
	REQUIREMENT									

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

David Persinger

Acting Director, Treatment Division

TYPED OR PRINTED

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE

907 564-2785
AREA NUMBER

DATE

13 12 10
YEAR MONTH DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

Whole Effluent Toxicity (WET) testing was completed on the Effluent composite sample collected November 5th, 2013. See attached WET Report for more details regarding this testing.

Gary Lawley
Kinetic Laboratories, Inc.
1102 West 7th Avenue
Anchorage, AK 99501

November 20, 2013

Gary,

I have enclosed our report "NPDES Compliance Toxicity Testing of the City of Anchorage John M. Asplund Water Pollution Control Facility Effluent". This evaluation consisted of performing the US EPA echinoderm sperm fertilization short-term chronic toxicity test with the purple urchin, *Strongylocentrotus purpuratus*, using an effluent sample collected November 5, 2013. A summary of the results of this testing follows:

Chronic Effects of Anchorage Effluent on Purple Urchin Sperm Fertilization

There were no significant reductions in echinoderm sperm fertilization at the effluent concentrations tested; the NOEC was 2.8% effluent, resulting in 35.7 TUC.

If you have any questions regarding the performance and interpretation of this test, please contact my colleague Dr. Scott Ogle or myself at (707) 207-7760.

Sincerely,



Digitally signed by Alison
Briden
Date: 2013.11.22 13:59:40
-08'00'

Alison Briden
Sr. Aquatic Ecotoxicologist

This testing was performed under Lab Order 21707. The test results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report, and only relate to the sample tested. This report shall not be reproduced, except in full, without the written consent of Pacific EcoRisk.

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Tracking Number: **70113500000190248023**Expected Delivery Date **December 14, 2013**

Product & Tracking Information

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Features:

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Return Receipt

DATE & TIME	STATUS OF ITEM	LOCATION
December 13, 2013, 2:40 pm	Delivered	SEATTLE, WA 98101
December 13, 2013, 8:25 am	Arrival at Unit	SEATTLE, WA 98101
December 13, 2013	Depart USPS Sort Facility	SEATTLE, WA 98168
December 13, 2013, 3:02 am	Processed through USPS Sort Facility	SEATTLE, WA 98168
December 11, 2013	Depart USPS Sort Facility	ANCHORAGE, AK 99531
December 10, 2013, 9:01 pm	Processed at USPS Origin Sort Facility	ANCHORAGE, AK 99530
December 10, 2013, 7:18 pm	Dispatched to Sort Facility	ANCHORAGE, AK 99515
December 10, 2013, 4:56 pm	Acceptance	ANCHORAGE, AK 99515

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Total Postage & Fees	\$ 15.57
Postmark Here	
Sent To	
Street, Apt. No., or PO Box No.	U.S. EPA, Region 10
City, State, ZIP+4	Attn: OCE-133
	1200 Sixth Avenue, Suite 900
	Seattle, WA 98101
PS Form 3800, August 2006	
See Reverse for Instructions	

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Tracking Number: 70113500000190248016

Expected Delivery Date: December 11, 2013

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Return Receipt

DATE & TIME	STATUS OF ITEM	LOCATION
December 11, 2013, 11:38 am	Delivered	ANCHORAGE, AK 99501
December 11, 2013, 8:35 am	Arrival at Unit	ANCHORAGE, AK 99501
December 11, 2013	Depart USPS Sort Facility	ANCHORAGE, AK 99501
December 11, 2013, 1:54 am	Processed at USPS Origin Sort Facility	ANCHORAGE, AK 99501
December 10, 2013, 9:01 pm	Processed at USPS Origin Sort Facility	ANCHORAGE, AK 99501
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December 10, 2013, 4:55 pm	Acceptance	ANCHORAGE, AK 99501

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ANCHORAGE, AK 99501

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Certified Fee	13.10
Return Receipt Fee (Endorsement Required)	12.55
Restricted Delivery Fee (Endorsement Required)	10.00
Total Postage & Fees	\$ 47.57

Sent To: **Ak Dept of Environmental Conservation**
Attn: Sherry Holm
Division of Water
555 Cordova Street
Anchorage, AK 99501

PS Form 3800, August 2006 See Reverse for Instructions

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- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Ak Dept of Environmental Conservation
Attn: Sherry Holm
Division of Water
555 Cordova Street
Anchorage, AK 99501

COMPLETE THIS SECTION ON DELIVERY

- A. Signature ☐ Agent
☒ Addressee
- B. Received by (Printed Name) C. Date of Delivery
- D. Is delivery address different from item 1? ☐ Yes
 If YES, enter delivery address below: ☐ No

3. Service Type
☒ Certified Mail ☐ Express Mail
☐ Registered ☐ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.
4. Restricted Delivery? (Extra Fee) ☐ Yes

2. Article Number
 (Transfer from service label)

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